

Organic Chemistry

Synthesis of amino sulfides and amino sulfones. X.
Synthesis of p-aminophenyl- β -ketone sulfides and p-aminophenyl β -ketone sulfones. I. Kh. Fel'dman and N. G. Prelu (S. Orlzhonikuz All-Union Chem.-Pharm. Inst., Moscow). *Zhur. Obshch. Khim.* (J. Gen. Chem.) 21, 1651 (1951).—Addn. of 1.1 g. KOH in 30 ml. EtOH to 4 g. $\text{EtO}_2\text{CCH}_2\text{SH}$, followed by 4 g. $p\text{-AcNH}_2\text{C}_6\text{H}_4\text{COCH}_2\text{Cl}$ and heating 3 hrs. at $40-50^\circ$ gave upon diln. 80.2% $p\text{-AcNH}_2\text{C}_6\text{H}_4\text{COCH}_2\text{SCCH}_2\text{CO}_2\text{Et}$, m. $90-2.5^\circ$ (from 70% EtOH). This (3 g.) with 2.5 ml. 20% H_2O_2 in AcOH 2 hrs. at $50-55^\circ$ gave 59% corresponding sulfone, m. $160-70^\circ$ (from 70% EtOH). This (2 g.) heated 1.5 hrs. to 100° with 20 ml. 14% HCl, cooled, and concd. gave a total of 1.2 g. (70.8%) $p\text{-HO}_2\text{CCH}_2\text{SO}_2\text{CH}_2\text{COCH}_2\text{NH}_2\text{HCl}$, m. $190-1^\circ$ (from EtOH). Treatment of 3.1 g. $p\text{-O}_2\text{NC}_6\text{H}_4\text{SH}$ with 1.1 g. KOH in EtOH, followed by 4.2 g. $p\text{-AcNH}_2\text{C}_6\text{H}_4\text{COCH}_2\text{Cl}$ 3 hrs. at 50° , gave 74% $p\text{-AcNH}_2\text{C}_6\text{H}_4\text{COCH}_2\text{SCCH}_2\text{NO}_2\text{p}$ (I), yellow, m. $186-7^\circ$ (from 70% EtOH), hydrogenated over Raney Ni in EtOH suspension to the p' -amino analog, m. $180-2^\circ$ (from EtOH), which, heated 2 hrs. to $70-8^\circ$ with AcOH-aq. HCl gave $p\text{-H}_2\text{NC}_6\text{H}_4\text{COCH}_2\text{SCCH}_2\text{NH}_2$, m. $140-2^\circ$ (from EtOH), upon neutralization with NH_4OH . I (6.5 g.) with 5 ml. 20% H_2O_2 in AcOH gave 90% corresponding sulfone, cream-colored solid (m.p. not given) (from EtOH-BuOH), which with H over Raney Ni gave 70% p' -amino analog, m. $147-0^\circ$ (from EtOH), hydrolyzed with aq. HCl-AcOH to the diamino compd., identical with the previ-

ously described specimen, m. $216-17^\circ$ (Otto, *J. prakt. Chem.* (2) 36, 401 (1887)). I (1.8 g.), 0.75 g. $p\text{-Me}_2\text{NC}_6\text{H}_4\text{CHO}$, 7 ml. pyrrolidine, and 2 drops piperidine reduced 10 hrs. and then pyridine, and 2 drops piperidine reduced 10 hrs. and then treated with 1% HCl gave 0.6 g. $p\text{-AcNH}_2\text{C}_6\text{H}_4\text{COCH}_2\text{SCCH}_2\text{C}(\text{CH}_3)_2\text{NMe}_2\text{p}$, m. $70-8^\circ$ (from aq. $\text{O}_2\text{NC}_6\text{H}_4\text{SO}_2\text{C}(\text{CH}_3)_2\text{NMe}_2\text{p}$, m. $70-8^\circ$ (from aq. EtOH), which with H over Raney Ni in EtOH gave 58% p' -amino analog, yellow-green, m. $139-41^\circ$ (from EtOH), converted by heating 6 hrs. to $70-8^\circ$ with AcOH-concd. HCl to $p\text{-H}_2\text{NC}_6\text{H}_4\text{COCH}_2\text{SCCH}_2\text{C}(\text{CH}_3)_2\text{NMe}_2\text{p}$, m. $160-2.5^\circ$ (from 70% EtOH), after neutralization with NaOH. XI. Synthesis of 2,2,2-trichloro-1-hydroxyethyl p-nitrophenyl sulfide, its acetoxy derivative, and sulfonide. I. Kh. Fel'dman and T. I. Gurevich. *Ibid.* 21, 1656-8.— Cl_3CCHO (14.7 g.) and 15.5 g. $p\text{-O}_2\text{NC}_6\text{H}_4\text{SH}$ treated 2 hrs. with dry HCl at $55-60^\circ$, then poured into cold H_2O gave 63% $\text{Cl}_3\text{CCH(OH)SC}_6\text{H}_4\text{NO}_2\text{p}$ (I), m. $64-6^\circ$ (from EtO). A similar reaction in the presence of Ac_2O gave 75% of the corresponding 1-AcO compd. (II), m. $68-9^\circ$ (from EtO). The latter (3.5 g.), 25 ml. AcOH, and 5 ml. Ac_2O treated at $5-8^\circ$ with 7 ml. 20% H_2O_2 , then warmed to 50° , gave after 3 hrs. 58% of the sulfonide, $\text{C}_6\text{H}_4\text{SO}_2\text{NSO}_2\text{CH}_2$, m. $110-20^\circ$ (from AcOH). I is not very stable and attempts at its acetylation or oxidation led to destruction of the mol. even at room temp. Even II is not very stable and is decompl. by heat or alk. solns. G. M. Kowalopoff

10

CA

4-Nitrophenyl 2-acetamido-5-thiazolyl sulfide. I. Kh. Fel'dman and N. G. Prein. U.S.S.R. 69,003, Aug. 31, 1947. $(O_2NC_6H_4)_2S_2$ is chlorinated and to the product is added directly aminothiazole 1, glacial AcOH 2, and AcO 1.5 parts. M. Hosen

ASTM-31A METALLURGICAL LITERATURE CLASSIFICATION

REGION SYMBOLS

SECONDARY ONLY ONE

REMARKS

REMARKS

PREININGER, M.

Present situation and outlook for the future in the mechanization
of grain harvesting in Czechoslovakia. p. 77. SBORNIK. RADA
MECHANISACE A ELEKTRIFIKACE ZEMEDLSTAVI A LESNICTVE. Praha.
Vol. 28, no. 2/3, Sept. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 7, July 1956.

PREJININGAK, Maroslav, ing.

Complex mechanization of Czechoslovak agriculture and its industrialization. Zemedel. techn. 9 no.3:165-168. Je 163.

1. Ředitel Vysokého ústavu zemědělské techniky, Rapy u -rapp.

STEJSKAL, Jan; PLESNIK, Jan; HRUSKA, Ladislav; SVOBODA, Jaroslav; NAJMR, Stanislav; ~~PREININGER, Miroslav~~; HAUNER, Frantisek; BENDA, Josef, inz.; KRAJCOVIC, Vladimir; VLCEK, Kvetoslav; KRBlich, Jan; CZEPI, Ladislav, Dr.; DVORACEK, Miroslav, inz. dr.; CHYTRA, Frantisek, inz.; FOLTYN, Jiri; VYSKOT, Miroslav; STAMBERA, Jaroslav, C.Sc. Doc.Inz.; KOSIL, Vladimir; STUCHLIK, Jaroslav, Inz.; NAKLADAL, Jaroslav, Inz.; RICHTER, Lev, MVDr.

Statements of directors of institutes, and of managers of workplaces of the Czechoslovak Academy of Agricultural Sciences. Vestnik CSAZV 8 no.8/9:496-531 '61.

1. Dopisující člen Československé akademie zemědělských věd (for Stejskal, Plesnik, Hruska, Svoboda, Najmr, Preininger, Hauner, Benda, Krajcovic, Krblich, Dvoracek, Foltyn, Vyskot, Kosil) 2. Člen redakční rady Vestníku Československé akademie zemědělských věd (for Plesnik, Preininger, Foltyn, Vyskot) 3. Ředitel Vyzkumného ústavu živočišné výroby Československé akademie zemědělských věd v Uhřetevsi (for Dvoracek) 4. Ředitel Ústavu pro vědeckou soustavu hospodářství Československé akademie zemědělských věd v Praze (for Benda)

(Czechoslovakia—Agriculture)

PREININGER, M.

"Conclusions made at the meeting of the Department of Mechanization and
Electrification in Agriculture"

Vestnik. Praha, Czechoslovakia. Vol. 5, special issue, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

Present situation and outlook for the future in the mechanization of grain harvesting in Czechoslovakia. p. 76.

S. O. KIK. P. 2. 4. SHAKTSKAYA ELEKTRIFIKACIYA S. 1. 1. VI A. 1. 1. 1. VI
VOL. 22, no. 2/3, Sept. 1955

Czechoslovakia

so. PAUL HILLY in ALBANY LIB. vol. 5, no. 7 July 1956

FRANINGER, V.

Science helps the mechanization of agriculture. p. 441. (MECHANISACE
ZEMEDLSTVI, Vol. 6, No. 23, Dec 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (BEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

PREININGER, M.

Report on the activities of the Department of Mechanization and Electrification in Agriculture. p. 262. (VESTNIK, Vol. 4, No. 5/6, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (BEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

PREININGER, F.

Keynote address at the International Conference on the Mechanization of
Fodder Harvesting. p. 330. (VESTNIK, Vol. 4, No. 7/3, 1957, Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order. The names are: [illegible]

2. The second part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order. The names are: [illegible]

PREININGER, Miroslav, inz.

From the activities of the Research Institute of Agricultural
Technology. Vest ust zemedel 10 no.5:200-202. '63.

1. Reditel Vyzkumneho ustavu zemedelske techniky, Repy u Prahy.

1ST AND 2ND ORDERS										PROCESSING AND PROPERTIES INDEX										3RD AND 4TH ORDERS									
<p>BC</p>										<p>Conductometric study of over-carbonatation (of sugar solutions). K. BARBERA and V. PAVLINOVA (Zuckerind. Czechoslov., 1930, 85, 115-119; cf. B., 1930, 863). In the carbonatation of sucrose solutions containing pure lime, the conductivity curve, plotted against diminishing alkalinity, showed a sharply defined minimum at the neutral point to phenolphthalein. In presence of 0.5% of potassium hydroxide the minimum occurred at an alkalinity of 0.04% CaO. In presence of 0.04% of ammonium hydroxide, which is only slightly more than beet juice contains after liming, the minimum occurred at an alkalinity of 0.08% or 0.083% CaO, according as pure lime or technical lime containing 3% of magnesia was used. On saturating beyond the minimum, the increase in conductivity for a given fall in alkalinity was much greater with the technical than with the pure lime, owing mainly to interaction of the ammonia with the magnesia in the lime. Among alkalis, ammonia has thus an exceptional influence on the optimum end-point of carbonatation, as judged by the elimination of electrolytes, especially where impure lime is used, and in this case it also increases the amount of electrolytes redissolved when carbonatation is carried beyond the optimum point.</p>										<p>5-III-2</p>									
<p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p>																													
<p>1ST AND 2ND ORDERS</p>										<p>3RD AND 4TH ORDERS</p>										<p>5TH AND 6TH ORDERS</p>									

117 AND 118 SUBJECT		PROCESSING AND PROPERTY INDEX		119 AND 120 COUNTRY	
<p>BC</p> <p>Decrease of the salts in carbonatation (of sugar juice) as observed by electrical conductivity measurements. K. SANIMBA and V. PRAMINGHA (Z. Zuckerind. Czechoslov., 1930, 84, 247-253).—By plotting curves for values of alkalinity and electrical conductivity, the influence of certain salts on the course of carbonatation was determined. It was shown that the chloride, sulphate, phosphate, hydroxide, oxalate, citrate, aspartate, and glutamate of potassium and the sulphates of calcium and magnesium, or their corresponding ions, are eliminated from solution in agreement with previous results established by means of analytical methods. It was possible not only to follow these effects during the course of carbonatation from an initial alkalinity of 0.30% down to neutrality, but the authors were also able to demonstrate that such anion forming insoluble calcium salts acts moreover in a very characteristic manner, either in exercising a secondary effect on the formation of buffer mixtures, or else in modifying the adsorbing power of the precipitate.</p> <p>J. P. OULVIR.</p>					
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Co

Conductivity during the end of saturation. K. ŠANDRA AND V. PRININGER.
Listy Cukrovar. 48, 443-7(1930).—NH₄ salts have a great influence upon the over-
 satn. phase. The presence of 0.2% NH₄OH shifts the overmatn. to regions of higher
 alk. (0.14% CaO). In the region of overmatn., 8 times as much salt redissolves from
 the sediment at a CaO content of 0.08% as compared to a 0.145% soln. This shift
 depends upon the compo. of the CaO and especially upon impurities as MgO. The
 NH₄ action is different from that of alkalis. In alk. media where the NH₄ may be
 uncombined, the elec. cond. is very low. The NH₄ may form complexes readily; it
 may be adsorbed; the dissociation may be suppressed. NH₄Cl is not absorbed like
 the Cl salts of alkalis; it produces only a slight effect upon the shift during satn.
 (NH₄)₂CO₃ has an action similar to that of NH₄OH; the actions are most marked
 with the purest CaO.
 FRANK MARSH

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

The decrease of salt in sugar solutions during saturation. K. SANDERA AND A. PRAGMANN. — *Leb. Zuckerz.*, 46, 169-74 (1929).—Cond. curves of satn. liquors were observed and followed by the eff. of various salts upon cond. curves during satn. Individual salts KCl , K_2SO_4 , $CaSO_4$, $MgSO_4$, K_4PO_4 , $K_2C_2O_4$, K citrate, K II aspartate, K glutamate and their ions are removed from solns. in agreement with chem. and analytical methods. Cond. measurements permitted following this process to the end of satn. (from alkyl. of 0.36% CaO to beyond neutrality). Anions which form insol. salts show an influence upon the course of satn. (chiefly PO_4 and C_2O_4); they act secondarily upon the formation of buffers or change the adsorptive power of the sediments. This explains the abnormal behavior of the salts K_2SO_4 and K_4PO_4 . FRANK MARKER

ASME-31A METALLURGICAL LITERATURE CLASSIFICATION

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73424.

Author : Preininger, Vladimír; Santavy, Frantisek.

Inst :

Title : Polarography of Alkaloids. XXII. On the Polarography of Veratrine Alkaloids.

Orig Pub: Chem. listy, 1958, 52, No 1, 140-141; Collect. czechosl. chem. Commun., 1958, 23, No 6, 1153-1154.

Abstract: The reduction (R) of the conjugate system of the α, β - unsaturated bond and of the keto group takes place in ervine. The height of the single 2-electron wave does not depend on pH. E_1 shifts 61 mv per unit of pH to the negative side² with the pH rise. At pH = 0, $E_{\frac{1}{2}} = -0.90$ v. Cevine, vera-

Card : 1/2

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73424.

cevine and germine do not produce R waves. In the opinion of the authors, the polarographic waves of veratramine and veratrosine observed earlier (Walaszek E.J., Piccio A., J. Amer. Pharmac. Assoc. Scient. Ed., 1952, 41, 270) were caused by the use of not sufficiently pure preparations. See report XXI in RZhKhim, 1957, 14928.

Card : 2/2

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73422.

Author : Vladimir Preininger, Helena Potesilova, Frantisek Santavy.

Inst :

Title : Polarography of Some Heterocyclic Oxonium Compounds.

Orig Pub: Chem. listy, 1958, 52, No 1, 25-30; Collect. czechosl. Chem. commun., 1958, 23, No 5, 860-865.

Abstract: The influence of pH on the waves of pyrrole, pyridine and quinoline aldehydes was studied. The E_1 of the anion differs from the E_1 of the non-dissociated acid in the case of the 3-pyrrolealdehyde-2-carboxylic acid. The reduction of the quinoline ring proceeds at more negative E-s than the reduction of aldehyde group in the case of quinoline derivatives.

Card : 1/2

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73422.

The E_1 -s were measured referred to sat. calom. el-de (extrapolated to pH = 0); N-methylpyrrole-2 aldehyde - -115 v; 5-pyrrolealdehyde-2-carboxylic acid - -0.83 v; 3-pyridine aldehyde - -0.49 v; 2-pyridine aldehyde - -0.30 v; 6-methylpyridine-2 aldehyde - -0.30 v; 2,6-pyridine aldehyde - -0.30 v; 4-pyridine aldehyde - -0.25 v; 2-quinoline aldehyde - -0.13 v; -0.76 v; 4-quinoline aldehyde - -0.14 v; -0.76 v.

Card : 2/2

PREMININGER, V.; SANTAVY, F.

SCIENCE

Periodical CHEMISKE LISTY. Vol. 52, no. 1, Jan. 1956.

PREMININGER, V.; SANTAVY, F. Polarography of alkaloids. XIII. Polarography of veratrum alkaloids. p. 140.

Monthly List of East European Accessions (SEAI) LC, Vol. 6, no. 3, March, 1959. Uncl.

PREININGER, V.; POTESILOVA, H.; SANTAVY, F.

SCIENCE

Periodical CHEMICKE LISTY. Vol. 52, no. 1, Jan. 1958.

PREININGER, V.; POTESILOVA, H.; SANTAVY, F. Polarography of some heterocyclic oxo compounds. p. 25.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

CZECHOSLOVAKIA UDC 617.55-089.85:616-089.5)-092.22(616.831)-008.9
(:547.964.4)-092.2

CERNOCH, M.; PREININGER, V.; Chemical Institute, Medical Faculty,
Palacky University (Chemicky Ustav Lekarske Fakulty PU), Olomouc,
Director (Reditel) Prof Dr F. SANTAVY.

"The Influence of Anesthesia and Laparotomy on the Glutathione
Content of the Liver and Brain in Rat."

Prague, Casopis Lekaru Ceskych, Vol 105, No 33, 19 Aug 66, pp
877 - 881

Abstract [Authors' English summary modified]: Reduced gluta-
thione content in the liver and brain of rats resulting from
anesthesia with ether and chloroform, and laparotomy is described.
Anesthesia causes the reduction in the glutathione content for
a few hours following it; laparotomy has a long-term reducing
effect lasting for 2 days. Changes in the liver are greater
than those in the brain. 3 Figures, 3 Tables, 12 Western, 3 Czech,
6 Russian, 1 Japanese, 1 Indian, 1 Hungarian reference. (Manus-
cript received Mar 66).

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- 52 -

Preininger, V.

Polsrography of alkaloids. XXI. The constitution of
protopine and related compounds. J. Slavik, L. Slaviková,
V. Preininger, and E. Santagá (Univ. of Prague, Czech.).
Chem. Abstr. 50, 656-9 (1956); cf. C.A. 49, 10138d.—Polaro-
 graphic studies of the dependence of the kinetic wave of
 protopine (I) on pH lead to the conclusion that in an acidic
 soln. the carbonyl group of I is not preserved. A polaro-
 graphically reducible group is found in the pH range 8–11.
 The carbonyl group of substances having quaternary N
 in the mol. remain preserved in the entire range of the Brit-
 ton-Robinson buffer soln. This is concluded from the pH-
 dependence of the 2-electron-diffuse-wave of protopine
 methiodide. E. Santagá

4

300

PM

PREININGER, Vladimir, inz., dr.

Examination of meat pasteurization and sterilization by ionizing radiation. Prum potravin 14 no.1:49-55 Ja '63.

1. Ustredni vyzkumny ustav potravinarskeho prumyslu, Praha.

PREININGPROVA, V., Ing. Ussr.

Use of electronic digital computers for the solution of technical
and economic problems in building transformers. [1] tech obzor 53
no.11:617-618 N '64.

L 33628-66

ACC NR: AP6025049

SOURCE CODE: CZ/0017/65/054/008/0375/0379

AUTHOR: Preiningerova, Vera (Engineer; Candidate of sciences)

ORG: State Research Institute for Electric Power Engineering (Statni vyzkumny ustav silnoprude elektrotechniky)

TITLE: Question of the suitability of utilizing the Peltier effect for the cooling of electrical machines

SOURCE: Elektrotechnicky obzor, v. 54, no. 8, 1965, 375-379

TOPIC TAGS: electric instrument, Peltier effect, heat loss, heat conduction, cooling

ABSTRACT: The paper discusses whether it is suitable to utilize the Peltier effect for dissipation of heat from electrical machines. The method of equivalent thermal circuits is used to determine the losses led away from the cooled medium at the optimal value of the current, for different methods of cooling element; those losses are compared with those led away by heat conduction because of the temperature gradient and the thermal conductivity of the material itself; in addition, they are compared with the power input required for their removal. The article concludes that it is not appropriate at present to utilize the Peltier effect for the cooling of machines, neither as an independent method nor in combination with other cooling systems. This paper was presented by Engineer L. Stourac, Candidate of Sciences.

Orig. art. has: 4 figures, 14 formulas and 2 tables. [Based on author's Eng. abstr.] [JPRS]

SUB CODE: 09, 20 / SUBM DATE: 18May64 / ORIG REF: 004 / SOV REF: 002
OTH REF: 001

LS
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UDC: 537.322.1: 621.313.017.72

0916

0216

CZECHOSLOVAKIA

P.ELIS. A., POLAK, B., PCML, B., and NOVAKOVA, J., Clinic of Occupational Diseases (Klinika chorob z povolani) Faculty of Medicine (Lekarska fakulta), J.Ev. Purkyně University, Brno; Docent Dr. J. VYSKOCIL, director; Department of Internal Medicine (Vnitřní oddělení), Faculty Hospital, Brno, Docent Dr. O. SAXL, director; and Research Institute for Synthetic Rubber (Výzkumný ústav syntetického kaučuku), Gottwaldov, J. PECH, MD, director.

"Do Substances with Surface Activity Have Any Relation to the Manifestation of Leukemia?"

Prague, Časopis Lékařů Českých, Vol CII, No 24, 14 June 63, pp 677-678.

Abstract: Report on a fourteen-year old girl who suffered from leukemia caused by swallowing a chemical detergent. Orientation experiments were made with rats. Further tests are being planned to draw definite conclusions.

PREIS, A.; LAXOVA, R.; ROVENSKY, J.

Dynamics of sweating reactions in rheumatic patients. Cesk. dermat.
37 no.5:307-312 0 '62.

1. Vnitřní odd. Fakultní dětské nemocnice v Brně, přednosta doc. dr.
O. Šaxl. Kozní odd. Dětské fakultní nemocnice v Brně, přednosta dr.
J. Rovenský.

(RHEUMATISM) (SWEAT GLANDS) (PILOCARPINE)

PREIS, A. (Brno, Cerna pole)

A fatal case of pluriorificial ectodermosis with general moniliiasis.
Cesk. pediat. 13 no.2:130-134 Mar 58.

1. Vnitřní oddělení Krajské dětské nemocnice v Brně-Cerných polích,
prednosta doc. Dr O. Saxl.

(ERYTHEMA MULTIFORME, compl.

Stevens-Johnson synd, with general moniliiasis in child,
fatal (Cz))

(MONILIASIS, in inf. & child

with Stevens-Johnson synd., fatal (Cz))

PREIS, A., TRETIHOVA, Z.; CERNY, M.

Atypical Klinefelter's syndrome with severe osteoporosis in an 11-year-old boy. Cesk. pediat. no.12:1094-1101 D ' 64

1. Interni oddeleni (vedouci doc. dr. G. Saxl) a ortopedicke oddeleni (vedouci doc. dr. M. Fait) fakultni detske nemocnice Krajskeho ustavu narodniho zdravi Jihomoravskeho kraje v Brne a Biologicky ustav fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. B.Sekla).

PREIS, A.; POLAK, B.; POHL, B.; NOVAKOVA, J.

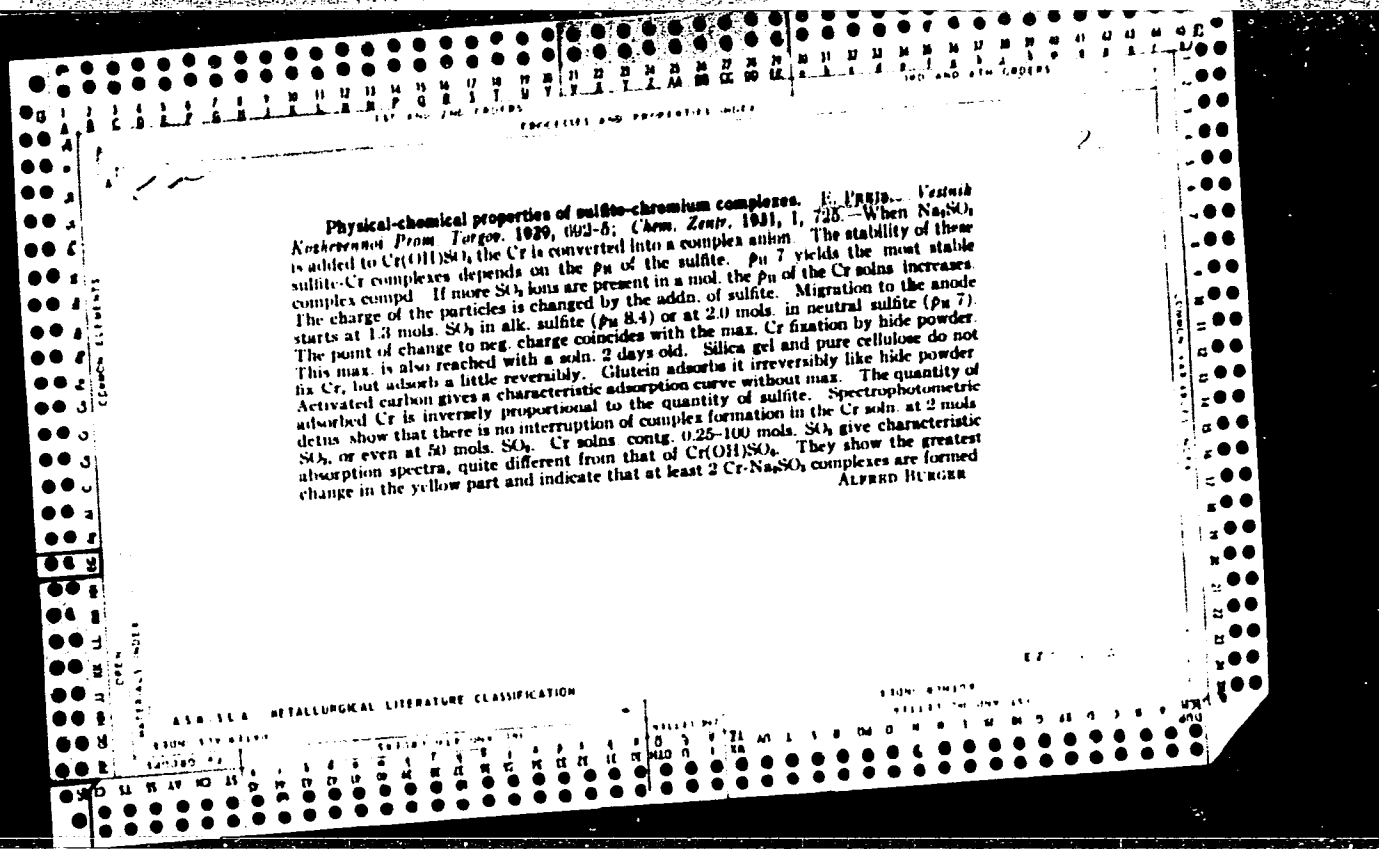
Do surface-active agents bear a relation to manifestations of leukemia? Cas. lek. cesk. 102 no.24:677-678 14 Je '63.

1. Klinika chorob z povolani lekarske fakulty UJEP v Brne, prednosta doc. dr. J. Vyskocil Vnitřni oddeleni fakultni nemocnice v Brne, vedouci doc. dr. O. Saxl Vyzkumny ustav syntetického kaučuku v Gottwaldove, reditel MUDr. J. Pech.
(SURFACE-ACTIVE AGENTS) (LEUKEMIA)
(NUCLEOSIDES) (BLOOD TRANSFUSION)

PREIS, A.

Electrocardiographic findings in congenital aortic stenosis.
Cas. lek. Cesk. 104 no.46:1263-1268 19 N '65.

1. Vyzkumny ustav pediatricky v Brne (reditel prof. dr.
Z. Brunecky, CSc.).



CIA-RDP86-00513R0013429

Preis, G. A.

N/5
741.43
.P9

Schnellzerspannung von Metallen. Leipzig, Fachbuchverlag, 1953.

200 P. Diagr., Tables

Translation from the Russian: "Skorostnoye rezaniye metallov," Moscow, 1950.

PREIS, A.

Cushing's syndrome in a 10-year-old girl. Cesk pediat 18
no. 3:241-245 '63.

1. Vnitřní oddělení krajské detské nemocnice v Brně, vedoucí
doc. dr. O. Saxl. Cesk pediat 18 no. 3:241-245 '63.
(CUSHING'S SYNDROME)

PREIS G. A.

Author: Preis, G. A.

Title: The high speed cutting of metals. (Skorostnoe rezanie metallov.) 191 p/

City: Moscow

Publication: State Sci-Tech. Pub. of the Machine Construction Literature

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 4, No. 3, June, 1951

PREIS, G. A.

High-speed metal cutting Kiev, Gos. nauchno-tekhn. izd-vo mashinostr it.
lit-ry, 1950. 191 p. (51-27451)

TJ1250.P05

PREIS, Hanna, mgr

Demand for short and medium range tramps. Techn gosp morska
14 no. 6:167-168 Je '64.

1. Maritime Institute, Gdansk.

CIA-RDP86-00513R0013429

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<p>CA</p> <p>Preparation and properties of an active alumina catalyst for industrial purposes. E. V. ALEKSEYEVSKII AND I. G. PERIS. <i>Zhur. Prikladn. Khim.</i> 3, 89 (1980), cf. <i>C. A.</i> 24, 4442. --A dehydrating catalyst is prepd. by mixing 70% air-dried hydrated alumina, ground to pass a sieve contg. 900 openings per sq. cm., with 30% kaolin from Glukhov, straining the mixt. for 1 hr., adding enough H₂O to form a paste and forming hollow rings 12 mm. in diam. and 20 mm. high, which are dried for several hrs. at 150°. Hydrated Al₂O₃ is best prepd. by pptg. it with HCl from Na aluminate soln. or with NH₃ from Al₂(SO₄)₃ soln. The catalyst is used commercially for dehydrating EtOH. V. KALICHVSKY</p>																																																			
<p>ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			

I. 20206-66 EWT(1)/EWP(t)/EWP(k) JD/HW
ACC No: TP6010323

SOURCE CODE: CZ/0042/65/000/003/0172/0186

AUTHOR: Preis, Jarml

ORG: Research Institute of Mechanization and Automation, Nove Mesto nad Vahom
(Vyzkumny ustav pre mechanizaciu a automatizaciu)

TITLE: Acoustical effects of spark discharges in fluids

SOURCE: Elektrotechnicky casopis, no. 3, 1965, 172-186

TOPIC TAGS: electric discharge, electronic circuit, electric capacitor, spark shock wave, fluid mechanics, acoustic effect

ABSTRACT: The paper deals with the influence of the parameters of a discharge circuit with a capacitor and a fluid medium on the magnitude of the pulse wave. It is concluded that the velocity of the pressure wave is dependent on the initial phase of the discharge, characterized by an intense voltage drop. Using certain simplifications, the pulse pressure was calculated for the parameters of various discharge circuits and a comparison was made with experimental data. A good agreement was found with similar cases. This paper was presented by J. Oravec. Orig. art. has: 15 figures and 7 formulas. /JPRS/
Card 1/1 SUB CODE: 20,09/ SUM DATE: 17Feb64/ORIG REF:003/OTH REF:002/SOV REF:002

PREIS, Jarmil, inz.

Contribution to the investigation of the cutting efficiency in
electrospark erosion. El tech cas 14 no.3:159-165 '63.

1. Vyvojovy ustav pre mechanizaciu a automatizaciu, Nove Mesto nad
Vahom.

Z/042/63/000/001/003/003
E140/E463

AUTHOR: Preis, Jarmil, Engineer

TITLE: Efficiency of a capacitive discharge circuit and the cutting at spart erosion working

PERIODICAL: Elektrotechnický časopis, no.1, 1963, 26-37

TEXT: The method is of recent development and is not yet well understood. The paper considers the problem of cutting rate. Previous studies which considered only the amount of metal removed in a single discharge and which neglected the general operating conditions are criticized. With increased input power the temperature is increased and therefore the effect of successive individual discharges increases. The theoretical limit of electrical efficiency for capacitive discharge circuits is 50%, but with increased power, required for raising the cutting rate, can drop to 30%. The efficiency of a rotary generator is substantially higher. There are 15 figures and 1 table.

ASSOCIATION: Vývojový ústav pre mechanizáciu a automatizáciu, Nové Mesto nad Vahom (Institute for Development of Mechanization and Automation, Novy Mesto nad Vahom)

Card 1/1 SUBMITTED: September 4, 1962

PREIS, Jarmil, inz.

Electrosparking crater. El tech cas 13 no.4:230-237 '62.

1. Vyvojovy ustav pre mechanizaciu a automatizaciu, Nove Mesto nad Vahom.

PREIS, Jarmil, inz.

Effect of condenser discharge circuits and reduction of efficiency
in electrospark erosion. El tech cas 14 no.1:26-37 '63.

1. Vyvojovy ustav pre mechanizaciu a automatizaciu, Nove
Mesto nad Vahom.

Z/056/62/019/001/004/012
1037/1237

AUTHOR: Preis, J.

TITLE: Outflow of cores from cast by the electrohydraulic effect

PERIODICAL: Přehled technické a hospodářské literatury. Hutnictví a strojírenství, v. 19, no. 1, 1962, 24

TEXT: The pressure wave method is suitable for automatic removal of cores from medium-heavy casts with complex internal cavities. There are 5 photos, and 1 scheme.

HS 62-293. 1961 VIII, Slévárenství 9, no. 8, 306-308

[Abstracter's note: Complete translation.]

Card 1/1

Z/042/62/000/004/002/002
E073/E335

AUTHOR: Preis, Jarmil, Engineer
TITLE: Electro-spark craters

PERIODICAL: Elektrotechnický časopis, no. 4, 1962, 230 - 237
TEXT: The author reviews information published in various countries on the mechanism of crater formation. He proposes the following mechanism of formation of electro-spark craters: after breaking-down the dielectric the electrodes are bridged over by a conducting channel and the form of the arc depends on the ability of the source to supply energy to cover the heat losses caused by lateral transmission and the cathode emission; the cathode has a decisive influence on the shape of the arc and the energy distribution. Experiments carried out in the laboratory of the author verify these statements. Thermal processes are decisive for the formation of the electro-spark crater and therefore the thermal field is calculated from a plane circular source. The analytically obtained values are compared with measured values of the depths of the craters, using a published semi-empirical formula. The surface of the craters is

Card 1/2

Electro-spark craters

Z/042/62/000/004/002/002
E073/E335

not an entirely plane source. In view of the fact that there is a sufficient agreement between the results of the thermal calculations and the measured depths of the craters, the here described calculations can be used for determining the depth of the affected zone and the possibility of crack formation. The author points out that there are discrepancies between published formulae for calculating the volume and the surface of craters and experimentally obtained data. There are 5 figures and 1 table.

ASSOCIATION: Vývojový ústav pre mechanizáciu a automatizáciu,
Nové Mesto nad Váhom (Development Institute for
Mechanization and Automation, Nové Mesto nad
Váhom)

SUBMITTED: October 6, 1961

Card 2/2

PREIS, M.

KRYNSKI, S; BOROWSKI, E; CHWISTECKA, W; BECLA, E; KONIAR, H.; PREIS, M.

Works on the new antibiotic tetaïne. Acta Poloniae pharm. 12
no.2:85-89 1955.

1. Zakład Mikrobiologii i Instytut Medycyny Morskiej A.M. w Gdansk
i Zakład Technologii Srodkow Leczniczych Politechniki w Gdansk.
(ANTIBIOTICS,
tetaïne)

KRYNSKI, S.; BOROWSKI, J.; PREIS, M.; IALKO, J.

Investigations on sensitivity of strains of *Staphylococcus* to
sulfonamides. Bull. Inst. Marine Trop. M. Gdańsk 6:161-170 1955.

1. Z Zakładu Mikrobiologii A.M. w Gdańsku.
(*MICROCOCCUS PYOGENES*, effect of drugs on,
sulfonamides, sensitivity)
(*SULFONAMIDES*, effects,
on *Micrococcus pyogenes*, sensitivity)

PREIS, W. F.

N. Y. Kamyshni, M. V. Medvidy, and W. F. Preis, "On the Problem of Automatic Feeding of Work Pieces to Lathes and Presses."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Mechanisms, Moscow, USSR, 24-28 March 1958.

PREISICH, G.

Taste in architecture, taste in streets. p. 683. Vol 114, no. 11, Nov. 1955.
TERMSZET ES TARSADALOM. Budapest, Hungary.

International Congress of Historians held in Rome. p. 687.

So: Eastern European Accession. Vol 5, no. 4, April 1956

PREISICH, Gabor

Plan for regulating the Danube bend. Epites azemle 5 no.9:257-270
'61.

1. Budapesti Varosepitesi Tervezo Iroda foepitesze.

PROCESSING AND PROPERTY INDEX																									
1ST AND 2ND COLUMNS													3RD AND 4TH COLUMNS												
711 1:2012 1 (1950)													24												
<p>88. The methodics of town planning as applied in Budapest, by G. Pletsch, Budapest University of Architecture, Vol. II, No. 11-12, pp. 721-724, Nov. - Dec., 1950, 1 tab.</p> <p>The building of Socialism has given an entirely new meaning to the question of town planning. Contrary to the so-called idealistic plans of the past - which, by the way, were never realized - the present plans are inspired by actual requirements. These plans cover definite periods of time, and, simultaneously, with their execution the experiences gained may be immediately evaluated. First of all, it is necessary to establish the method of work, as well as the system of interrelated tasks. The correct sequence of planning is first to draw up a general town plan, with plans of the details following subsequently. This calls for a number of preparatory tasks, such as the compilation of data, their evaluation etc. In an attempt to facilitate this work, the author, in collaboration with the designers of the Budapest Institute for Town Planning, drew up a comprehensive table on the methodics of planning</p>																									
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SECTION 99													SECTION 100												

PROCESSING AND PROPERTY INDEX																									
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<p>EPITES-EPITESZET BUILDING-ARCHITECTURE Vol. 11.-1950 No. 11-12, Nov.-Dec.</p>																									
<p><i>to: Budapest</i> The methodology of town planning of the city of Budapest</p>																									
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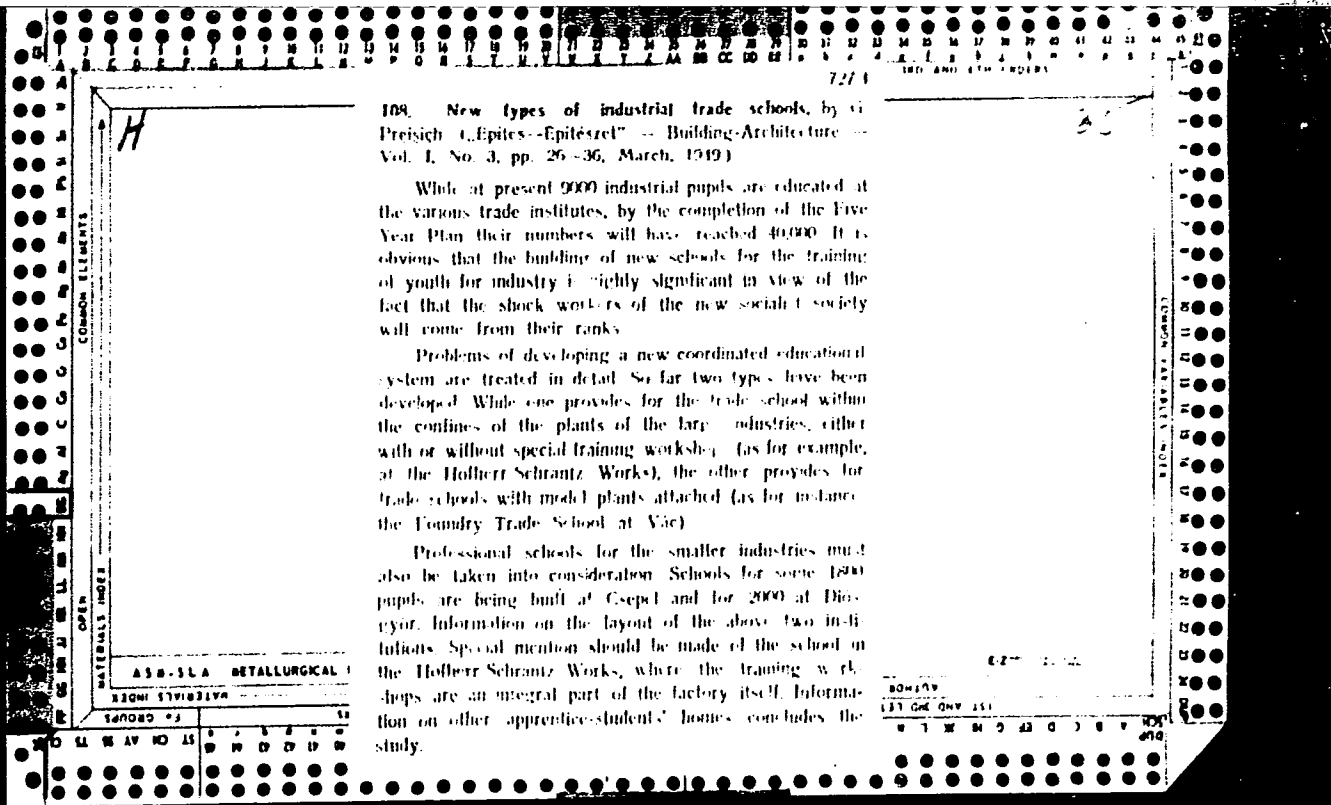
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EPITES -- EPITESZET
BUILDING -- ARCHITECTURE
Vol. II. -- 1950
No. 9-10, Sept. - Oct.

36

G. Preisch. 128
Construction of dwelling houses and
the contest initiated by the Ministry
of Building for standard designs for
dwelling houses. pp. 281-291

ASH 55.4 METALLURGICAL LITERATURE CLASSIFICATION



109

Sedimentation potential of soil suspensions. Miklos Preisch. *Moskovskiy Khimicheskiy Zhurnal* 15, 90-6 (1942); *Chem. Zentr.* 1942, II, 1050. With sedimentation of acid soil suspensions, there is formed between 2 layers of the suspension a difference in pH values which increases proportionally with the clay content of the soil. Details are given in the original. J. R. Adams

AS 4 SLA METALLURGICAL LITERATURE CLASSIFICATION

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C.A.

13

Domestic mineral raw materials of the Hungarian chemical industries. Miklós Preisch. *Magyar Kém. Lapja* 4, 321-5(1949).—A review. István Finkly

PREISICH, M.

Magyar Kemikusok - Vol. 10, no. 5, May 1955.

Report by the secretary general. p. 139.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

PREISICH, M.

Some problems of our technical progress. p. 297. Magyar Kemikusok Lapja.
Vol. 10, no. 10, Oct. 1955

Source: East European Accessions List, (EEAL), 1c, Vol. 5, No. 2, Feb. 1956

PREISICH, M.

State and tasks of planning in the chemical industry. p. 329. MAGYAR
KEMIKUSOK LAPJA. (Magyar Kemikusok Egyesulete) Budapest. Vol 10, No.
11, Nov. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

PREISICH, Miklos

An account of the 1960 work of the Hungarian Chemical Society. Magyar
kem lap 16 no.5:195-196 My '61.

1. Magyar Kemikusok Egyesületének fotitkara.

PREISICH, Miklos

The Secretary General's account of the 1962 general meeting
of the delegates of the Hungarian Chemical Society. Magyar
kem lap 17 no.5:193-199 My '62.

1. Magyar Kemikusok Egyesulete fotitkara.

PREISICH, Miklos

Once more about the utilization of possibilities. Musz
elet 20 no.8:6 22 Ap '65.

1. Deputy General Director, Chemical Industry Trust, Budapest.

WITTMAN, Istvan, dr. ; PREISICH, Peter, dr.

Drug therapy of colitis ulcerosa (gravis). Orv. hetil. 105
no.15:685-690 12 Ap'64

1. Budapest, VIII. Kerületi Tanács Balassa Janos Korhaz,
I. Belosztaly.

*

PREISICH, Peter, dr.; PINTER, Zoltan, dr.; BIRO, Gyorgy, dr.

The role of sorbitol dehydrogenase in the diagnosis of liver diseases. Orv. hetil. 104 no.27:1272-1278 J1 7 '63.

1. Balassa Janos Korhaz I Belosztaly es Magyar Nephadsereg,
Egeszsegugyi Szolgalat.

(HEPATITIS) (LIVER CIRRHOSIS)

(JAUNDICE, OBSTRUCTIVE)

(SORBITOL) (DEHYDROGENASES)

HUNGARY

PREISICH, Peter, Dr, PINTER, Zoltan, Dr, BERO, Gyorgy, Dr; Balassa Janos Hospital I. Medical Ward and Hungarian People's Army, Health Service (Balassa Janos Korhaz I. Belosztaly es Magyar Nephadsereg, Egeszsegugyi Szolgalat).

"The Role of Sorbitdehydrogenase in the Diagnosis of Liver Diseases."

Budapest, Orvosi Hetilap, Vol 104, No 27, 7 July 1963, pages 1272-1274.

Abstract: [Authors' Hungarian summary] The Boehringer optical test has been used for the determination of the sorbitdehydrogenase (SDH) enzyme activity in the serum of 40 patients. The authors confirmed the findings of others that the serum of healthy humans contains only traces of SDH. This is a liver-specific enzyme which appears in the serum in considerable concentration during acute liver diseases. Chronic liver deficiency cases show normal or slightly elevated values. The SDH graph shows a curve similar to that of transaminase. Its determination is simple. All Western references.

SOLTI, F.; CLAUDER, O.; FEHER, G. A.; PREISICH, P.; KASSAY, G.

Effect of sodium lactate in conduction disturbances of the heart with special respect to overdigitalization. Acta med. hun. 14 no. 4:405-413 '59.

1. The 1st Department of Medicine, University Medical School, Budapest.

(LACTATES pharmacol.)

(HEART DISEASES ther.)

(DIGITALIS toxicol.)

PREISICH, Peter, dr.

Experience with the use of a new Hungarian ganglionic blocking agent "Synapleg". Orv. hetil. 103 no.4:172-175 Ja '62.

1. Balassa Janos Korhaz, I Belosztaly.

(AUTONOMIC DRUGS therapy)

SOLTI, F.; PETER, A.; ISKUM, M.; HERMANN, R.; PREISICH, P.

Studies of the cerebral circulation and cerebral metabolic changes in man: The method of investigation. Acta med. hung. 17 no.2:117-125 '61.

1. 1st Department of Medicine (director: professor I. Ruszyak) and Department of Neurology (director: professor B. Horanyi), University Medical School, Budapest.
(BRAIN blood supply) (CEREBROVASCULAR DISORDERS physiol.)

SOLTI, F.; REV, J.; PREISICH, P.; KOLTAY, E.

Effect of nicotine on sweating. Acta med.hung.16 no.3:233-236
'60.

1. Medizinische Klinik der Medizinischen Universität, Budapest.
(SWEATING pharmacol)
(NICOTINE pharmacol)

S/262/62/000/016/004/009

1011/1211

AUTHOR: Preiskorn, G.

TITLE: A gas-turbine plant

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 16, 1962, 31 abstract 42.16.235 P. (GDR patent, class 46f, 12, no. 21967, September 21, 1961)

TEXT: A gas turbine design is proposed in which the combustion chamber is placed between the compressing and power turbines while the regenerator is placed immediately behind the combustion chamber in front of the power turbine. It is held that the efficiency of all the plant is increased by this location of the heat exchanger in spite of the lower temperature at the power turbine input; furthermore the dimensions of the heat exchanger which is placed in a high pressures region are decreased. The air compressed in the compressor is warmed up in the regenerator and expands in the compressor turbine. Then the air flow is divided. Part of the air is heated in the combustion chamber and passes through the regenerator transferring the heat to the compressed air which goes into the compressor turbine. The other portion of the flow passes by the combustion chamber and is mixed with the gas that passed that chamber before the second part of the regenerator or behind it before of the power turbine.

[Abstracter's note: Complete translation.]

Card 1/1

PREISLER, E.; PANKOWSKA, U.

Changes of the cholesterol concentration of the total lipids and of glucose in the serum under the influence of physical exertion of long duration. Bull. Soc. amis sc. Poznan [med] Ser. no.12:61-70 '63.

4

PREISLER, E.; KABZA, R.

Concentration changes of some human serum electrolytes and
iron in consequence of physical efforts. Bull. soc. amis. sci.
Poznan [med.] 13 :85-93 '64

PREISLER, Eligiusz

Effort changes of the electrocardiographic curve. Polski tygod.lek.
15 no.43/44:1674-1679 24 0 '60.

1. Z Pracowni Medycyny Sportu II Kliniki Chorob Wewnętrznych A.M.
w Poznaniu; kierownik Kliniki: prof.dr med. J. Roguski,
(ELECTROCARDIOGRAPHY)
(EXERTION)

PREISLER, Eligiusz

BOLECHOWSKI, Feliks; PREISLER, Eligiusz

Effect of states during start of the competition and of prolonged efforts in skiers on electrocardiographic picture. Poznan. Tow. przyjaciol nauk. Wydz. lek. 10 no.10:1-42 1954.

1. Z II Kliniki Chorob Wewnetrznych A.M. w Poznaniu. Kierownik: prof. dr J. Roguski i Glownej Poradni Sportowo-Lekarskiej w Warszawie. Dyr. dr Z. Zajackowski.

(ATHLETICS,

*ECG in skiers)

(ELECTROCARDIOGRAPHY,

*in skiers)

PREISLER, H.; VINTNER, F.

Design of carbide tools for intermittent working. p. 931. (STROJIRENSTVI,
Vol. 6, No. 12, Dec 1956, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (MEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

PRELIMINARY

14

✓ 14593 Evaluation of the Present State of Machining With
Sintered Corundum. Zkušební z obrobění na silicovém
korundu. (Czech.) E. Vintur and J. Prešler. Strojitrení,
v. 5, no. 3, Mar. 1955, p. 189-203.
Effect of quality and cutting angles of disks on cutting power;
recommendations based on Czech and Soviet plant practice;
use of ceramic disks in discontinuous machining; face-milling
of cast iron; durability of ceramic milling cutters and knives.
Diagrams, graphs, table, 5 ref.

① 14
Jed

PREISLER, J., inz.

Milling machines with digital control. Stroj vyr 9 no.5:223--
229 '61.

1. Vyzkumny ustav obrabecich stroju a obrabeni, Praha.

20991

1,5100 2908 also 1068, 1089

Z/031/61/009/005/001/004
D007/D102

AUTHOR: Preisler, J., Engineer

TITLE: Numerically controlled milling machine

PERIODICAL: Strojírenská výroba, v. 9, no. 5, 1961, 223-229

TEXT: The author explains the principle of numerical machine control and describes the working model of a numerical control system built by the VÚOSO for a FA3V milling machine. The block schematic of the control system is shown in Fig. 3. The punched tape is fed to the reading device (ČJ) which reads each block (containing 13 transversal rows of 1-5 holes, each row representing one number or sign) and transmits the information to the linear interpolator (LI). The interpolator produces a corresponding number of impulses and feeds them to the differentiation element (DČ). The table movement is tracked by an electro-optical gage (OZ) which produces one impulse for each 1/100 mm of table feed. These impulses are fed back to the differentiation element which compares them with the impulses coming from the linear interpolator. The impulse difference appears

Card 1/8

20991

Z/031/61/009/005/001/004

D007/D102

Numerically controlled ...

as polarity and magnitude of the output voltage which controls the electro-hydraulic system (SPH) of the table feed. The electro-optical gage (Fig. 4) consists of a glass scale (3) with 0.04 mm graduation, attached to the table. A similar shorter scale, rigidly mounted in front of the table scale, has two fields of gage marks, mutually shifted by 0.02 mm, each in front of a photocell (4). As the table-gage moves, the light rays of the lamp (1) are alternately interrupted according to the position of the marks on both scales. The photocells convert the interrupted light rays into electrical impulses. Two photocells are used to control the two directions of the table feed. To save costs and space, one interpolator can be used to process the programs of several machine tools and the individual programs are then recorded on magnetic tapes. The magnetically recorded programs can easily be checked and arbitrarily played back on a tape recorder which is an integral part of each numerically controlled machine tool. A working model of such a numerical control system was built by the VUOSO for a FA3V milling machine. The machine has continuous longitudinal and cross feeds of the table. The tailstock feed is not continuous, but can be hydraulically adjusted

Card 2/8

20991

Numerically controlled...

Z/031/61/009/005/001/004
D007/D102

to six various vertical positions controlled by a system of stops. When the tailstock is lifted, the drum with the stops turns and the tailstock engages with the next stop preset to the desired height. Numerically controlled milling machines are used for single-piece or small-batch machining of parts with intricate shapes. The program can be established either by calculation (for simpler shapes with high precision requirements), or from an enlarged tool-path, drawn on cross-section paper, as shown in Fig. 7. An accuracy of 0.1 mm, sufficient for most cases, can be achieved by the latter method when a 5 : 1 enlargement is used. Both programming methods can also be combined. To avoid preparing two programs in cases where a part must be roughly machined prior to finish machining, only one program is established for the diameter of the finishing tool, and smaller-diameter tools are used for roughing, to retain the finishing allowance. No system has yet been developed in the CSSR which allows correction of once established programs for changed tool diameters. Worn tools must be ground to precise dimensions, for which a new program must be prepared. The complete, checked program is recorded on a paper tape in a code as used in teletypewriting, where

Card 3/8

20991

Numerically controlled...

Z/031/61/009/005/001/004
D007/D102

each number or sign is expressed by a combination of 1 - 5 holes, transversally punched on a 17.5 mm wide paper tape. These tapes are punched on a form of teletypewriter which automatically punches the correct code as each key is depressed and then shifts the tape. At first a special sign is punched at the beginning of the tape which is not registered by the reading device and merely serves the proper insertion of the tape into the reading device. Subsequently all 13 numbers of the first and all subsequent blocks are punched, plus a sign at the end of the last block which stops the operation of the interpolator. It is recommended to cross-check two punched tapes of the same program, since an error would cause rejects and possibly even machine damage. A modified teletypewriter provides a typed copy of the punched information for checking the punching accuracy. The most reliable check, however, is an idle working cycle performed according to the newly established program. If the indexing plates of table-feed screws return to zero after completion of one cycle, the program is correct. The following results were obtained with the new machine: The time required for the preparation of the program ranged from 30 to 180 min, but it is expected that the prepara-

Card 4/8

20991

Numerically controlled...

Z/031/61/009/005/001/004
D007/D102

tion of complex programs will be reduced by using tables with calculated values for substituting a polygon for a circle; computing machines, etc. The time required for setting the machine ranged from 12 - 30 min, which is considered short, especially when existing programs can be used in repeated operations. The absolute accuracy (i.e. deviation of dimensions of the produced part from the blueprint) in removing a thickness of 0.5 mm from the workpiece averaged 0.05 mm, best results being from 0.01 - 0.03 mm; the relative accuracy (i.e. the deviation of dimensions between individual parts) was approximately 0.03 mm. For very precise machining, tools should be sharp, working allowances should be small, and precise tool diameters and untrue run should be considered already in programming. In addition to the FA3V milling machine, the prototype of a numerically controlled FA4V-N milling machine was completed in late 1960. This machine has continuous control also of the 3rd coordinate (Z), enabling continuous tool-feed in all three coordinates, in planes given by the axes XY, XZ and YZ. Also, the FRJ 5 plano-milling machine was equipped with a numerical control system using a linear interpolator. The table and the spindle feeds of this machine are

Card 5/8

20991

Z/031/61/009/005/001/004
D007/D102

Numerically controlled...

simultaneously controlled. In conclusion the author summarizes the advantages of numerically controlled machine tools as follows: (1) They permit the automation of single-piece and small-batch production; (2) They are especially suitable for machining products of complicated shapes to close tolerances; (3) The preparation of programs requires comparatively little time; (4) The operation of these machines is simple. However, they require an elaborate work organization and highly qualified maintenance personnel. There are 10 figures and 1 table.

ASSOCIATION: Výzkumný ústav obráběcích strojů a obrábění, Praha
(Research Institute of Machine Tools and Machining,
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Card 6/8

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21 ①

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"Road to Success in Cross-Country Racing." p. 26

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"Experiences of J. Titov, A Stakhanovite Driver." Tr. from the Russian. (To be contd.) p. 28

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Z/031/60/008/010/001/001
A205/A026

AUTHOR: Preisler, J., Engineer

TITLE: Program-Controlled Milling Machines With Rectangular Cycle

PERIODICAL: Strojírenská výroba, 1960, Vol 8, No. 10, pp. 481 - 487

TEXT: The article contains detailed information on the program control of the "FB" knee-type milling machine, including necessary instruments and mechanisms. Program-controlled machine tools, produced lately in the ČSR include the "SP 31" and "SP 25" semi-automatic lathes, the "FB 40" knee-type milling machine with rectangular cycle controlled by stops (Photo 1) and "FRM 6" and "FRO 8" plano-milling machines. The ČSR is also developing or completing prototypes of: a semi-automatic, punched-tape controlled duplicating lathe, a horizontal drilling machine with automatic coordinate adjustment, a numerically controlled turning lathe, a knee-type milling machine with simplified numerical feed control, a numerically controlled knee-type milling machine with a general cycle, etc. Program-controlled milling machines, produced in the ČSR, can be classified in 3 groups: 1) Such with an automatic rectangular cycle; 2) such with numerical control; and 3) such with template control and arbitrary cycle repetition. The

Card 1/4

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A205/A026

Program-Controlled Milling Machines With Rectangular Cycle

automatic rectangular cycle (Flow chart 2) permits only one feed direction at a time and feed distances are adjusted either by separately set stops or are part of the program, recorded on the punched tape. Both control systems are used in "FB" knee-type milling machines. The program of the automatic cycle is punched on a tape (perforated 35 mm standard film), which passes through a reading mechanism. This reading mechanism (Photo 3 and Fig. 4) is standardized and can be used in any Czechoslovak punched-tape controlled machine tool. Its main feature is a block of 80 spring-cushioned pins and a contact plate pressed against the pins, between which the punched tape passes. The pins are arranged in 5 longitudinal rows of 16 pins each, covering a tape section of 76 x 35 mm which is called "the block". The reading mechanism is equipped with an asynchronous motor, coupled to the camshaft by an electromagnetic, single-revolution clutch, which engages as soon as the tape-feed relay disconnects the pins from the voltage source, whenever a moving part of the machine reaches its desired position. The end cam of the shaft removes the contact plate from the pins and releases the tape which is then shifted forward by the length of the next block. The plate returns into its original position, the pins are reconnected to the voltage source and the camshaft stops in its basic position. This entire cycle requires

Card 2/4

Z/031/60/008/010/001/001
A205/A026

Program-Controlled Milling Machines With Rectangular Cycle

0.2 sec, during which the punched information is not accessible and all motions, besides the ones marked "continuous" are stopped. Lengths of punched-tape blocks of "FB" knee-type milling machines differ according of the feed control method employed. In case of control by stops, the block (Fig. 5) is only 28.5 mm long and contains 5 longitudinal rows of 6 pins each. The block is divided into 2 sections. Functions of section 1 are: "B" - stop in case of tape rupture (not punched); "K, K" - stop in case of incorrect step (always punched); "ZS" - change of feed direction; "KON" - continuous operation; "SC" - stop of cycle; " \pm X, Y, Z" - coordinates and direction of table feed; "RP" - rapid feed; "PP" - working feed; "DP" - infeed; "+A, -A" - correction of another tool diameter; "SK" - lowering of the bracket; and "ZK" - lifting of the bracket. The "+A, -A" punches are only used in simplified numerical feed control and serve the correction of ± 1 mm deviations of tool diameter. In case of a simplified numerical feed control (without mechanical stop), the 76-mm-long block with all 80 pins is used (Fig. 6). The functions of the first two sections are the same as listed above, an additional third section serves the numerical presetting of feed lengths. Its pins are connecting the contact plate with an electronic impulse instrument, the so-called "decatronic evaluator" which generates a number of im-

Card 3/4

Z/031/60/008/010/001/001
A205/A026

Program-Controlled Milling Machines With Rectangular Cycle

pulses according to the number punched on the tape. Each impulse represents a feed of 0.01 mm. The deatronic evaluator compares the preset number of impulses with the number of impulses received from the gauging device during the feed, and stops the motion when both numbers coincide. The evaluator is common for all feeds and is switched-over to the subject axis by a relay. The program of a rectangular working cycle with stop-controlled feed is set as follows: At first, the cutter head is brought into starting position which is also reference point. All dials are set to zero and the speed of the working feed and the tool rotation are preset. Feed directions are adjusted with an individual stop system for each direction sense. Stops are placed at every point where speed or direction must change (Figs. 8a and b). Additional stops, 'void' or 'idle' stops, are placed in more complicated cycles (Fig. 9). These stops are put out of function by "continuous operation" marks of corresponding blocks. The tapes are punched according to a program chart (Table 1). For this purpose, a manual punching device (Photo 10) may be used. It consists of a grid plate with 80, correspondingly marked holes and a sled with a stop for correct dimensioning of the block. There are 3 photos, 7 figures and 1 chart.

ASSOCIATION: Výzkumný ústav obráběcích strojů a obrábění (Research Institute for Machine Tools and Machining) in Prague

Card 4/4